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Reply to Office action of January 19, 2010

Amendments to the Claims:

This listing of the claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (**Currently Amended**) A cutting arrangement which is disposed on a distance of travel of a web of corrugated board (1) that is continuously produced by a corrugating machine, the cutting arrangement comprising:
- a. a blade shaft (32) which is mounted on a blade-shaft axis of rotation (31) for drivable rotation and which comprises at least one circular blade (34) thereon; and b. a brush roll (16; 16a; 16d) which is disposed opposite to the blade shaft (32) and mounted a brush-roll for rotation about an axis of rotation (15) for rotation, supporting the web of corrugated board (1) which passes between the circular blade (34) and the brush roll (16; 16a; 16d) when the web of corrugated board (1) is cut by the at least one circular blade (34);
- c. the brush roll (16; 16a; 16d) comprising shells (37; 37a; 37b; 37c; 37d) which are disposed on a roll core (17; 17a; 17d) and have a cross-sectional shape of a segment of a circle and which have
 - i. an outside (39) and an inside (40), the inside (40) faces towards the roll core (17; 17a; 17d);
 - ii. bristles which stand out from the outside (39);
 - iii. torque-transmission means (44, 45, 46; 52, 54; 75) for transmitting torque from the roll core (17; 17a; 17d) to the shells (37; 37a; 37b; 37c; 37d); and

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- iv. fastening means (49, 51; 75) for fixing the shells (37; 37a; 37b; 37c; 37d) to the roll core (17: 17a):
- d. wherein threaded holes (44, 46; 69, 72) are provided in the roll core (17; 17d) and on the inside (40) of the shells (37; 37d), respectively accommodating a fastening pin (45; 75) for non-rotary connection of the shell (37; 37d) with the roll core (17; 17d); and
- e. wherein the fastening pin (75) comprises two threaded portions (76, 77) of different pitches.
- 2. (**Withdrawn Currently Amended**) A cutting arrangement according to claim 1, wherein the shells (37; 37a; 37b; 37c; 37d) are half-shells.
- 3. (**Withdrawn Currently Amended**) A cutting arrangement according to claim 1, wherein the shells (37; 37a; 37b; 37e; 37d) form a closed brush sleeve (38; 38a) on the roll core (17; 17a).
- 4. (**Currently Amended**) A cutting arrangement according to claim 1, wherein annular ribs (42; 42a; 42d) are provided on the roll core (17; 17a; 17d), and the annular ribs (42; 42a; 42d) project radially at least along part of a periphery of the roll core (17; 17a; 17d).
- 5. (**Currently Amended**) A cutting arrangement according to claim 4, wherein ring grooves (43; 53; 43d) are provided on the inside (40) of the shells (37; 37a; 37b; 37c; 37d), and the ring grooves (43; 53; 43d) cooperate with the ribs (42; 42a; 42d) for at least one of fixing the shells (37; 37a; 37b; 37c; 37d) axially and fixing the shells (37; 37a; 37b; 37c; 37d) tangentially.

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6. (Cancelled)

- 7. (**Currently Amended**) A cutting arrangement according to claim 1, wherein a first shell (37) comprises a first fastening means and a second shell (37) comprises a second fastening means for connection of the first shell (37) with the second shell (37) on the roll core (17).
- 8. (**Withdrawn Currently Amended**) A cutting arrangement according to claim 1, wherein in the vicinity of the axial or tangential ends of the shells (37e; 37d), the bunches of bristles (61e, 62e, 65) incline towards the respective end, in particular combining with a radius to make an angle of b > 0°.
- 9. (Withdrawn Currently Amended) A cutting arrangement according to claim 1, wherein two adjacent shells (37b)-interengage in the way of fingers in the vicinity of their respective tangential ends.

10. (Cancelled)

- 11. (**Currently Amended**) A shell for use in a cutting arrangement according to claim 1 for being fixed to a roll core (17; 17a; 17d), the shell comprising:
- a. a basic structure (57; 57a) having a cross-sectional shape of a segment of a circle;
- b. thean outside (39) and an the inside (40);
- c. the bristles which project outwards from the outside (40);
- d. <u>the torque-transmission means (44, 45, 46; 52, 54; 75)</u> for transmitting torque from the roll core (17; 17a; 17d) to the basic structure (57; 57a);

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- e. <u>the fastening means (49, 51; 75)</u> for fixing the basic structure (57; 57a) to the roll core (17; 17a; 17d), wherein the fastening means is a comprises the fastening pin (75) comprising two threaded portions (76, 77) of different pitches; and
- f. receiving means (70, 72) as through comprising the holes hole in the roll core and a hole in the shell, the hole in the roll core has a comprising two threaded portions portion and the hole in the shell has a threaded portion, the threaded portions having (73, 74) of different pitches for associating with receiving the fastening pin (75).
- 12. (**Currently Amended**) A cutting arrangement according to claim 4, wherein ring grooves (43; 53; 43d) are provided on the inside (40) of the shells (37; 37a; 37b; 37c; 37d), and the ring grooves (43; 53; 43d) cooperate with the ribs (42; 42a; 42d) for fixing the shells (37; 37a; 37b; 37c; 37d) tangentially.
- 13. (Withdrawn Currently Amended) A cutting arrangement which is disposed on a distance of travel of a web of corrugated board (1)-that is continuously produced by a corrugating machine, the cutting arrangement comprising:
- a. a blade shaft (32) which is mounted on a blade-shaft axis of rotation (31) for drivable rotation and which comprises at least one circular blade (34) thereon; and b. a brush roll (16; 16a; 16d) which is disposed opposite to the blade shaft (32) and mounted on a brush-roll axis of rotation (15) for rotation, supporting the web of corrugated board (1) which passes between the circular blade (34) and the brush roll (16; 16a; 16d) when the web of corrugated board (1) is cut by the at least one circular blade (34);

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- c. the brush roll (16; 16a; 16d) comprising shells (37; 37a; 37b; 37c; 37d) which are disposed on a roll core (17; 17a; 17d) and have a cross-sectional shape of a segment of a circle and which have
 - i. an outside (39) and an inside (40), the inside (40) faces towards the roll core (17; 17a; 17d);
 - ii. bristles which stand out from the outside (39);
 - iii. torque-transmission means (44, 45, 46; 52, 54; 75) for transmitting torque from the roll core (17; 17a; 17d) to the shells (37; 37a; 37b; 37c; 37d); and
 - iv. fastening means (49, 51; 75) for fixing the shells (37; 37a; 37b; 37c; 37d) to the roll core (17; 17a);
- d. wherein the fastening means are joining plates—(49), each comprising holes (50) for receiving securing pins—(51); and
- e. wherein the joining plates (49) are inserted in slits (47) of each shell (37; 37a).
- 14. (**New**) A cutting arrangement according to claim 1, wherein a first of the threaded portions of the fastening pin fitting inside the threaded hole on the shell, and a second of the threaded portions of the fastening pin fitting inside the threaded hole on the roll core, and the second threaded portion of the fastening pin has a larger pitch than the pitch of the first threaded portion of the fastening pin.
- 15. (**New**) A cutting arrangement according to claim 14, wherein the second threaded portion of the fastening pin is of a larger diameter than the first threaded portion of the fastening pin.